DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40

Frame : 324JP Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 433 lb

Protection degree : IP23 Moment of inertia (J) : 3.02 sq.ft.lb

Ailitude		. 1000 III.a.s.i. Approx. weight						
Protection degre	е	: IP23	Moment of ine	Moment of inertia (J) : 3.02 sq.ft.lb				
Design		: B						
Output [HP]		50	40	40	40			
Poles		2	2	2	2			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		119/59.4	57.5	56.6	56.6			
L. R. Amperes [A]		748/374	368	374	385			
LRC [A]		6.3x(Code G)	6.4x(Code G)	6.6x(Code H)	6.8x(Code H)			
No load current [A	.]	45.0/22.5	20.5	24.0	27.0			
Rated speed [RPI	Rated speed [RPM]		2960	2965	2965			
Slip [%]		1.11	1.33	1.17	1.17			
Rated torque [ft.lb]		73.8	71.0	70.8	70.8			
Locked rotor torqu	Locked rotor torque [%]		200	229	240			
Breakdown torque	: [%]	220	220	240	260			
Service factor		1.25	1.00	1.00	1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		25s (cold) 14s (hot)	19s (cold) 11s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)			
Noise level ²		75.0 dB(A)						
	25%	91.5	88.3	88.4	88.5			
Efficiency (%)	50%	91.7	90.0	90.0	90.1			
Efficiency (70)	75%	93.0	91.6	91.7	91.7			
100%		93.0	93.3	93.3	93.3			
	25%	0.46	0.48	0.42	0.37			
Power Factor	50%	0.72	0.73	0.67	0.60			
I OWEI FACIOI	75%	0.81	0.82	0.77	0.73			
	100%	0.84	0.85	0.82	0.79			

Drive end Non drive end 6312 Z C3 6211 Z C3

Bearing type : 6312 Z C3 6211 Z C3 Sealing : Without Without

Bearing Seal Bearing Seal

Lubrication interval : 19658 h 20000 h
Lubricant amount : 21 g 11 g
Lubricant type : Mobil Polyrex EM

Foundation loads Max. traction Max. compression

Notes

USABLE @208V 130A SF 1.15 SFA 149A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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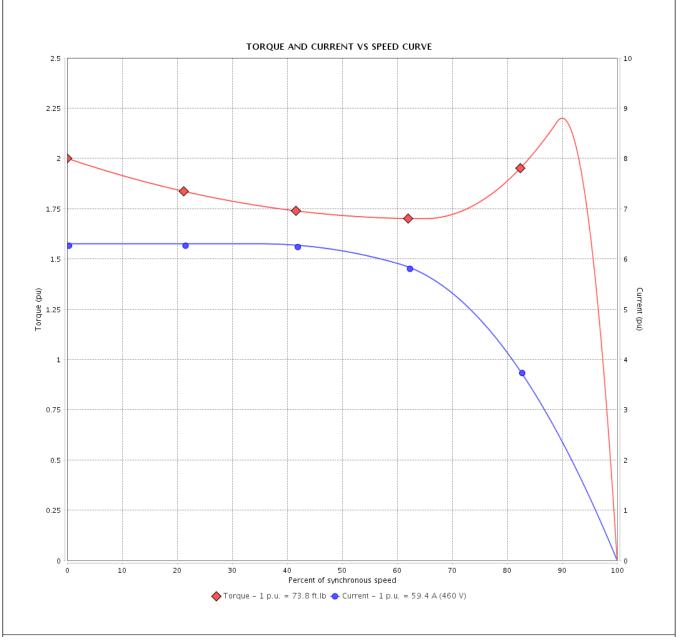
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance : 230/460 V 60 Hz 2P Rated current : 119/59.4 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 73.8 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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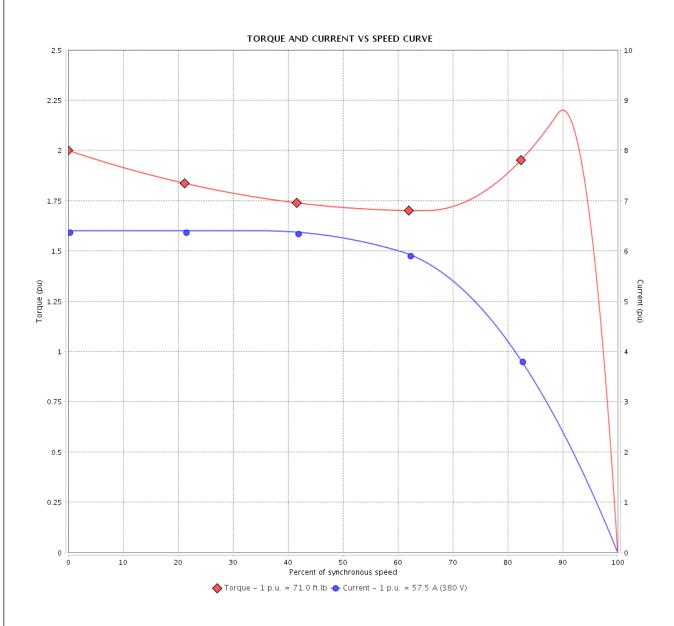
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 57.5 A	Moment of inertia (J)	: 3.02 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 71.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B
Locked rotor time	: 19s (cold) 11s (hot)		

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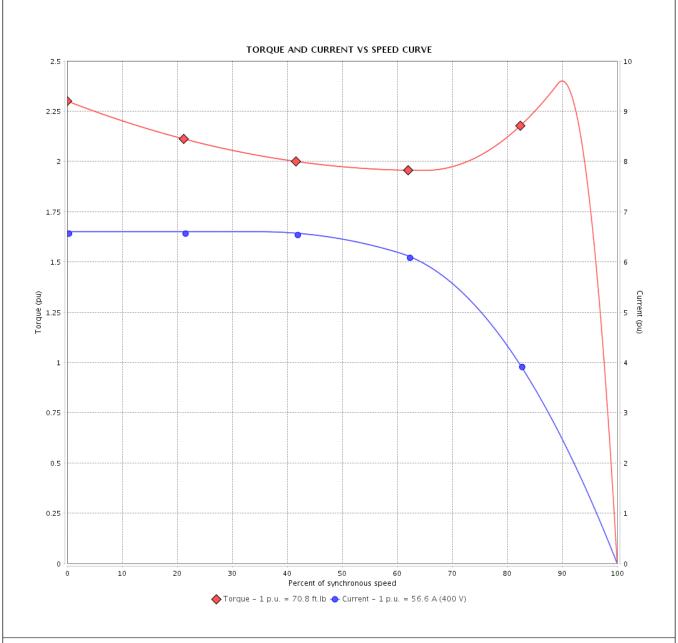
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



 Performance
 : 400 V 50 Hz 2P IE3

 Rated current
 : 56.6 A
 Moment of inertia (J)
 : 3.02 sq.ft.lb

 LRC
 : 6.6
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 70.8 ft.lb
 Insulation class
 : F

Locked rotor torque: 229 %Service factor: 1.00Breakdown torque: 240 %Temperature rise: 80 KRated speed: 2965 rpmDesign: B

Locked rotor time : 21s (cold) 12s (hot)

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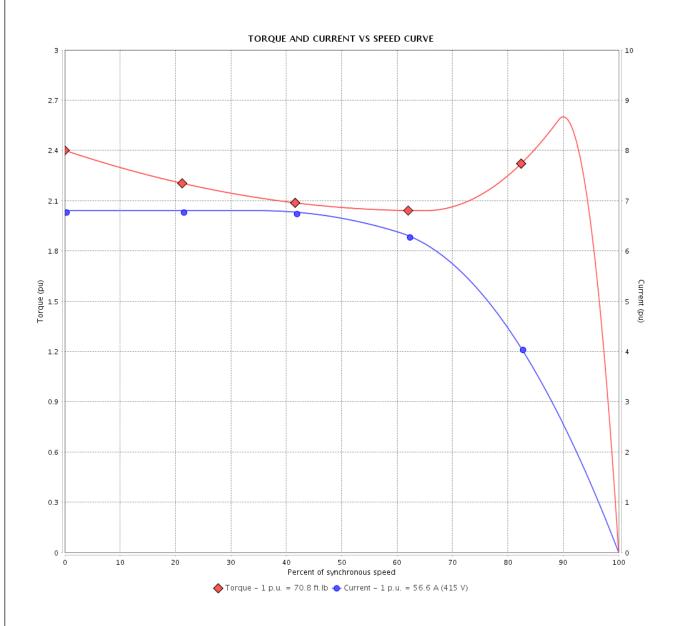
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance : 415 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 70.8 ft.lb Insulation class Rated torque : F : 240 % Locked rotor torque Service factor : 1.00 : 260 % Breakdown torque Temperature rise : 80 K : B Rated speed : 2965 rpm Design

Locked rotor time : 19s (cold) 11s (hot)

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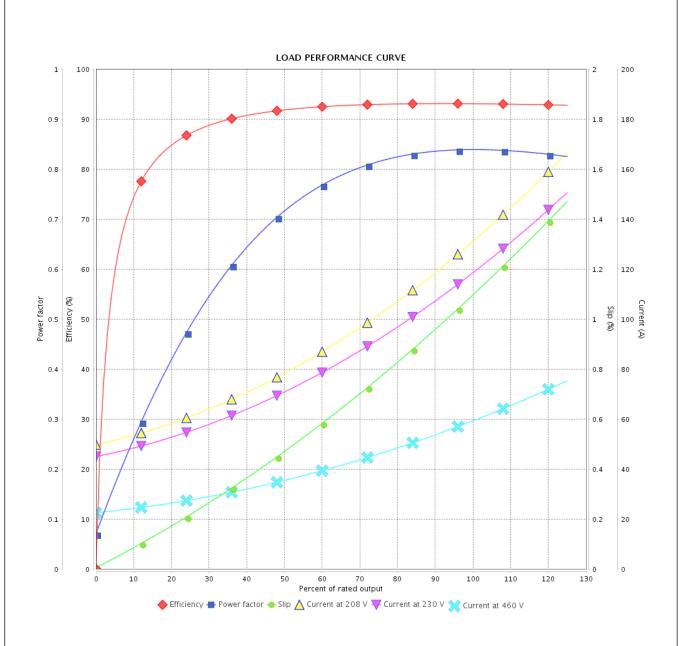
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance : 230/460 V 60 Hz 2P : 119/59.4 A Rated current Moment of inertia (J) : 3.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class Rated torque : 73.8 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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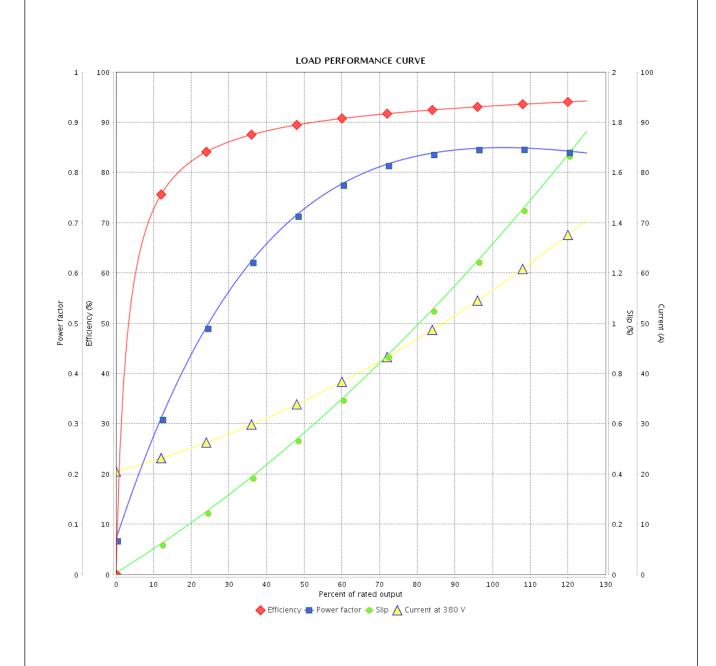
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current	1 2 1 2 1 1			Moment of inertia (J)		
LRC	: 6		Duty cycle		: Cont.(S1)	
Rated torque	= =	1.0 ft.lb	Insulation		: F	
Locked rotor torque :		00 %	Service fa		: 1.00	
Breakdown torqu	e : 2:	20 %	Temperati	Temperature rise		
Rated speed	: 29	960 rpm Design			: B	
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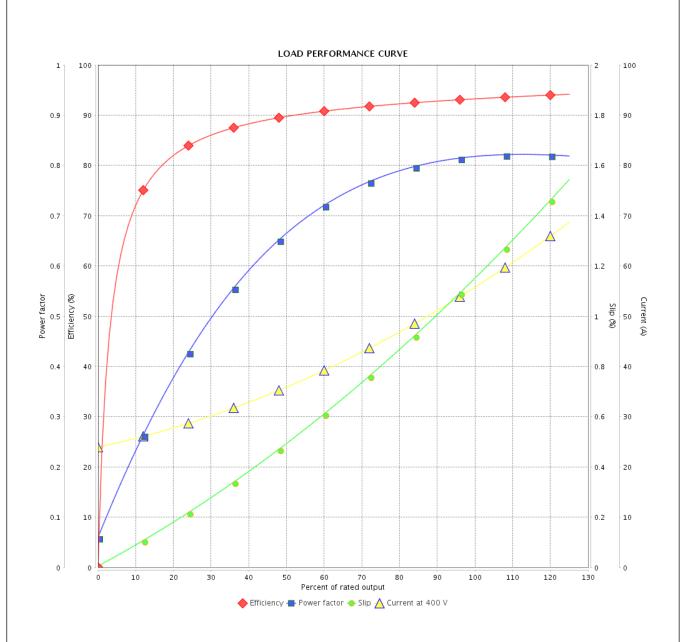
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

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Performance : 400 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 70.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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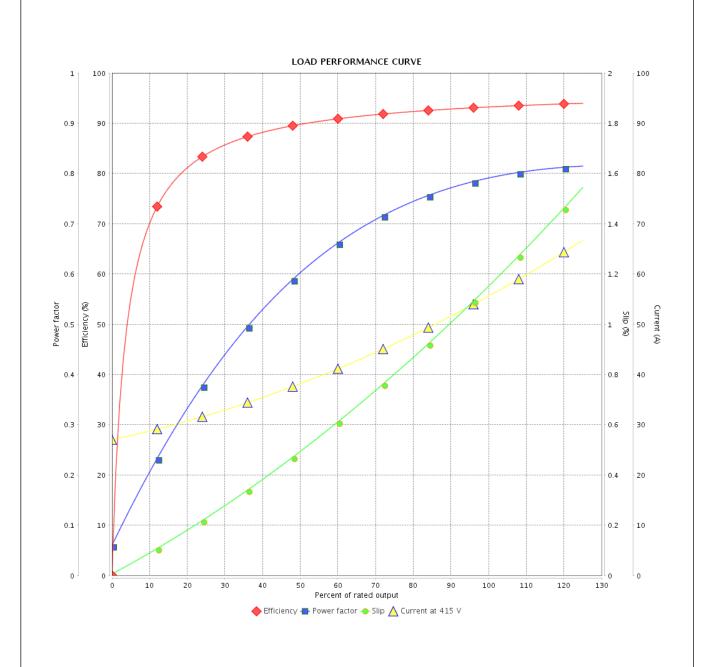
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Efficiency Three-Phase

Product code: 14490226

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 56.6 A : 6.8 : 70.8 ft.lb : 240 % : 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 3.02 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 2965 rpm	, ·		: B	
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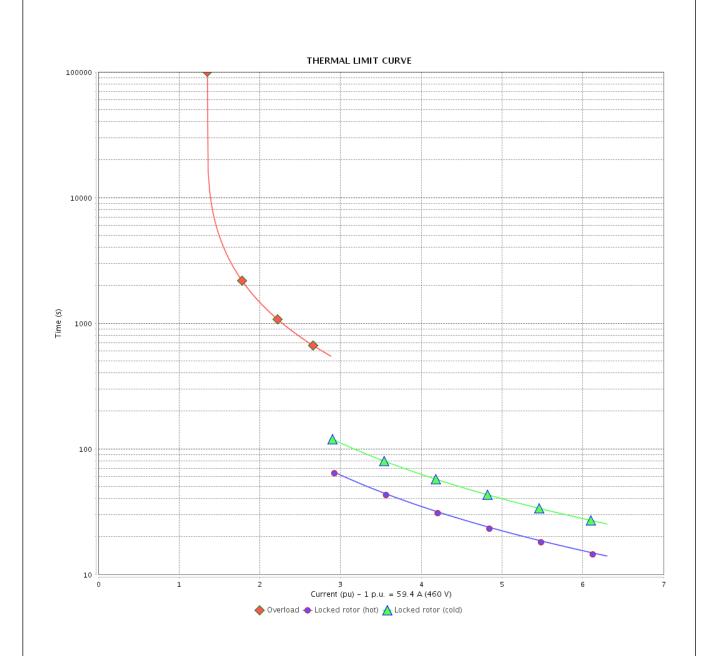


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Product line	: \ Ft	N40 JP Pump NEMA Prem fficiency Three-Phase	ium I	Product code :	14490226	
	<u></u>	molency fillee-i flase	(Catalog # :	05036OT3E32	24JP-W40
Performance		30/460 V 60 Hz 2P				
Rated current LRC	: 1 1 : 6 .	19/59.4 A 3	Moment of Duty cycle	nertia (J)	: 3.02 sq.ft.lb : Cont.(S1)	
Rated torque	: 73	3.8 ft.lb	Insulation	class	: F	
Locked rotor torqu		00 %	Service fac		: 1.25	
Breakdown torque Rated speed		20 % 560 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant			-			
Cooling constant			Т			
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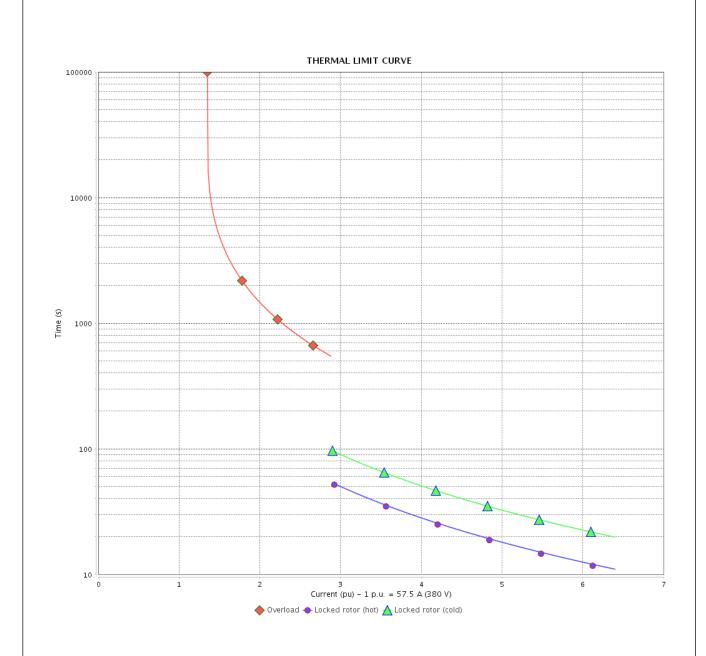


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Product line	:\	W40 JP Pump NEMA Prem fficiency Three-Phase		Product code :	14490226 05036OT3E32	24JP-W40
Performance	: 38	80 V 50 Hz 2P IE3				
Rated current LRC	: 6.		Moment of Duty cycle		: 3.02 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		1.0 ft.lb 00 %	Insulation Service fac	class	: F : 1.00	
Breakdown torqu Rated speed	e : 22	20 % 960 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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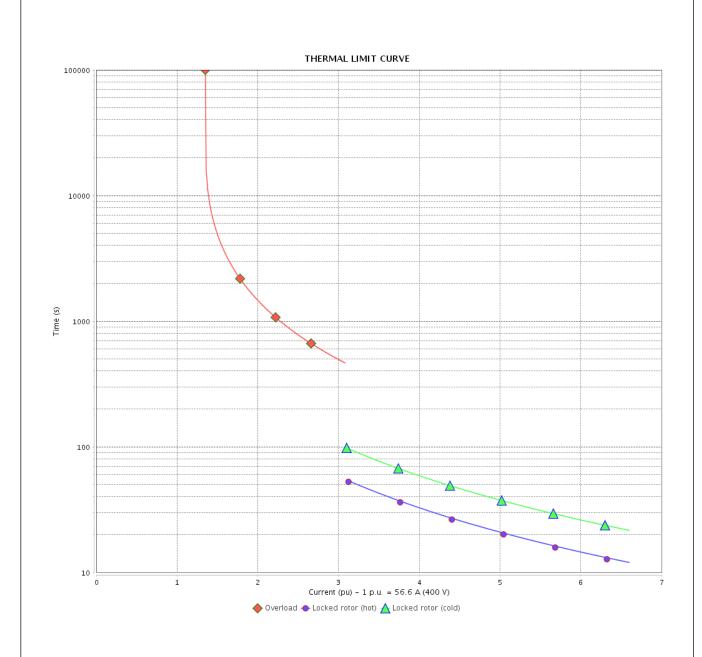


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Product line	:\	N40 JP Pump NEMA Prem	ium f	Product code :	14490226	
	E	fficiency Three-Phase	(Catalog # :	05036OT3E3	24JP-W40
Performance		00 V 50 Hz 2P IE3				
Rated current LRC	: 56 : 6.	6.6 A	Moment of Duty cycle	finertia (J)	: 3.02 sq.ft.lb : Cont.(S1)	
Rated torque	: 70	0.8 ft.lb	Insulation	class	: F	
Locked rotor torq		29 %	Service fac		: 1.00	
Breakdown torque Rated speed		40 % 965 rpm	Temperatu Design	iie iise	: 80 K : B	
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Cooling constant			-			
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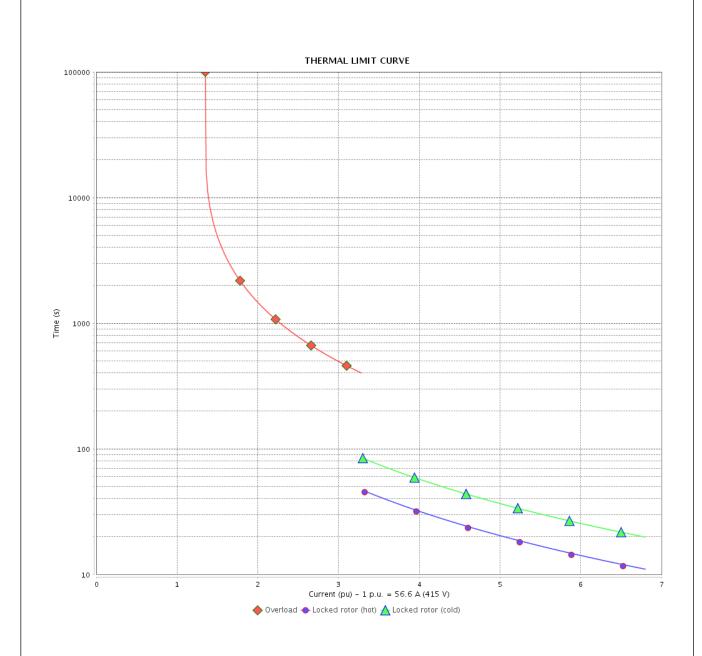


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Product line	i	: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14490226 05036OT3E3	24JP-W40
Performance		415 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: (56.6 A 6.8 70.8 ft.lb	Moment on Duty cycle Insulation		: 3.02 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que ::	240 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		260 % 2965 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
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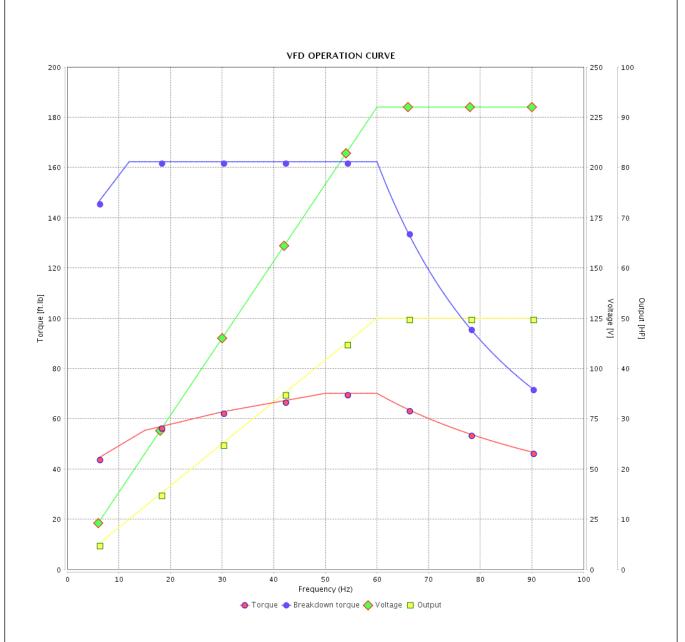
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance : 230/460 V 60 Hz 2P : 119/59.4 A Rated current Moment of inertia (J) : 3.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 73.8 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



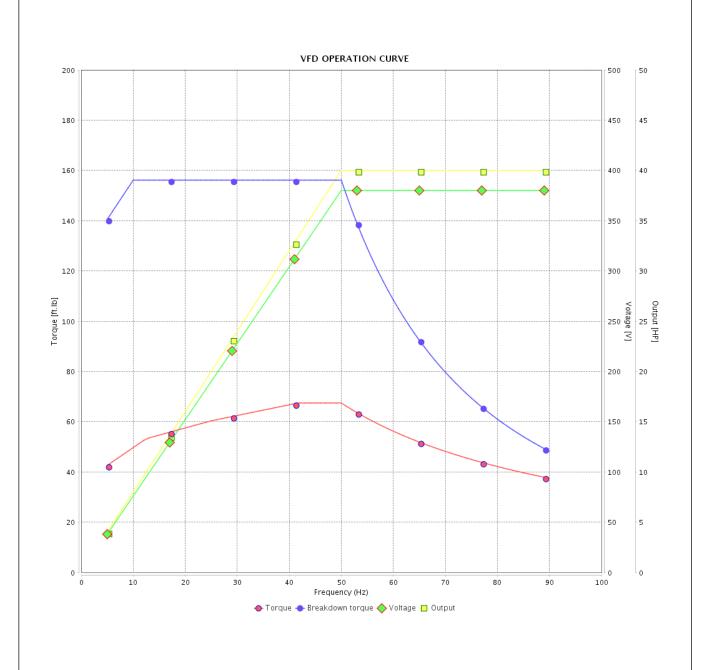
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Efficiency Three-Phase

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Catalog #: 05036OT3E324JP-W40



Performance :		380 V 50 Hz 2P IE3					
Rated current		57.5 A	Moment of	Moment of inertia (J)			
LRC		6.4	Duty cycle	Duty cycle			
Rated torque		71.0 ft.lb	Insulation	Insulation class			
Locked rotor torque		200 %	Service fa	Service factor		: 1.00	
Breakdown torque	e : 2	220 %	Temperat	Temperature rise			
Rated speed	: 2	2960 rpm	Design	Design			
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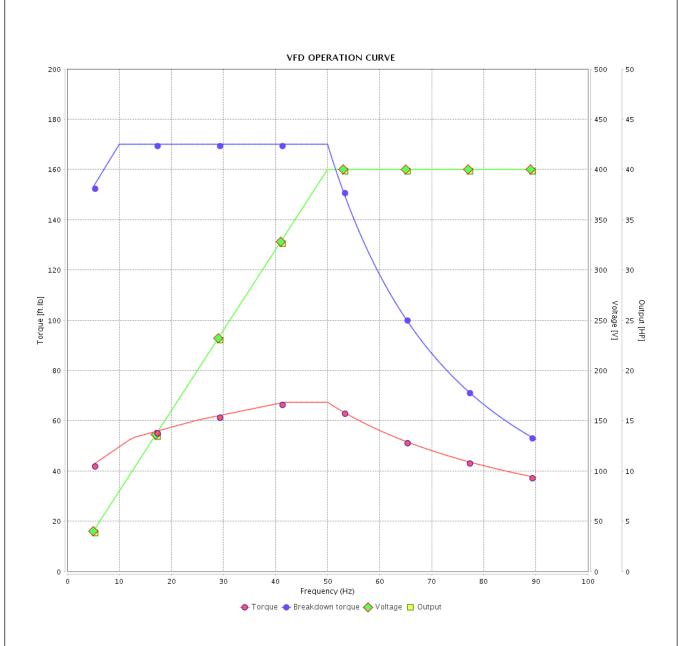
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 56.6 A Moment of inertia (J) : 3.02 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class : 70.8 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



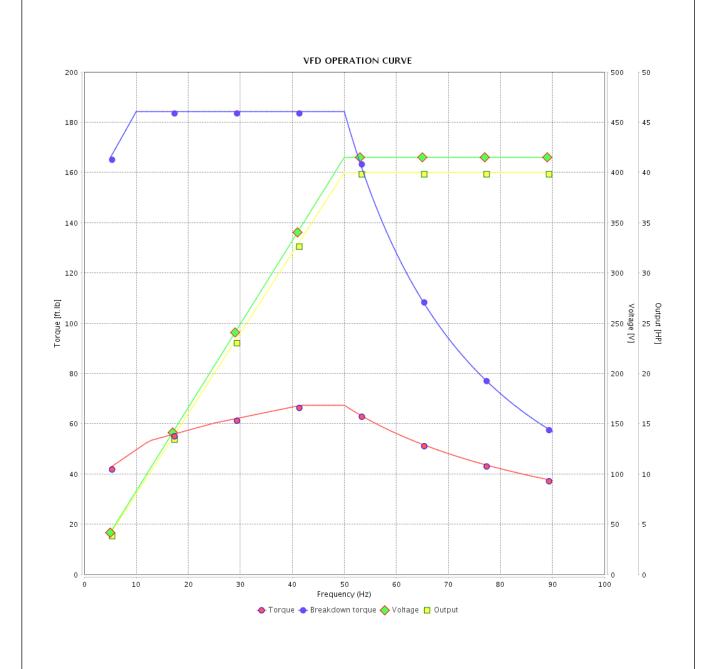
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490226

Catalog #: 05036OT3E324JP-W40



Performance : 415 V		15 V 50 Hz 2P IE3				
Rated current : 56		6.6 A	Moment of	Moment of inertia (J)		
LRC : 6.8		.8	Duty cycle	Duty cycle		
Rated torque :		0.8 ft.lb	Insulation	Insulation class		
Locked rotor torque : 2		40 %	Service fa	Service factor		
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 2	965 rpm	Design		: B	
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